Programming Concepts

Assessment Fact Sheet

Overview

The Programming Concepts test measures knowledge of the core aspects of computer science programming that is valid across programming languages. Designed for all programmers.

Job Family/Title	Programmers

Details

Average Testing Time (minutes)	28 minutes
Allowed Time (minutes)	90 minutes
Maximum Number of Questions	30 questions
Number of Sittings	One
Designed for Unproctored Environment	Yes
Question Format	Multiple Choice - Adaptive
Product Category	Information Technology

Knowledge, Skills, Abilities and Competencies Measured

The following areas are covered:

- Algorithms
- Complex Data Types
- Data Access
- Productivity and Quality
- Program Flow
- Program Structure
- Programming Paradigms
- User Interface
- Variables, Data Types, and Operators

Example Question

Question Time Remaining: 0h : 2m : 53s

```
NumVal = 2

REPEAT
    NumVal = NumVal + 1
UNTIL (NumVal  > 50)

PRINT NumVal
```

Based on the sample code above, which one of the following prints when the program is executed?

a	○ 2
b	○ 3
c	○ 50
d	○ 51
e	○ 52

Next

Example Report

Test: Programming Concepts
This report is confidential and its contents are intended to assist in the prediction of an applicant's work behavior. If you would like more information about this interpretive report or other products that SHL offers, please contact your account representative.

Score: 2.82
Proficiency Level: Proficient (2.51 - 3.50)
The candidate has mastered the basic concepts of Programming Concepts, including:

- Programming Paradigms
- Program Structure
- User Interface

The candidate demonstrates a clear understanding of intermediate Programming Concepts concepts, such as:

- Variables, Data Types, and Operators
- Complex Data Types
- Program Flow

The candidate may have some knowledge of more advanced Programming Concepts concepts such as:

- Algorithms
- Productivity and Quality
- Data Access

At the Proficient level, the candidate will be capable of working on most projects involving Programming Concepts with minimal assistance. However, the candidate will probably require more assistance with advanced concepts.

Percentile Comparisons
The percentile score indicates how well the candidate scored relative to other candidates in the comparison population indicated by the score.

Percentile Comparisons

		Low	Medium	High
	Percentile	30	70	100
Global Population	26	◆		

Detail Item Results

Order	Question	Topic	Description	Skill Level	Time Taken (Seconds)	Is Correct	A	B	C	Theta	Info	Stand Error
1	PROGRAM_CONCPTS_R2_BB_0270	Algorithms	Analysis and Translation	Advanced	177.8	Yes						
2	PROGRAM_CONCPTS_R2_BB_0159	Program Structure	Expressions and Statements	Basic	65.1	No						
3	PROGRAM_CONCPTS_R2_BB_0247	Algorithms	Analysis and Translation	Advanced	61.6	Yes						